GENERAL INDEX

INDEX TO VOLUME XLIV

SUBJECTS

PAGE

Anomalous Dispersion, Mutual Repulsion of Spectral Lines, and Other Solar Effects Concerned with. *Sir Joseph Larmor* . 265

Anomalous Dispersion, Observational Evidence that the Relative Positions of Fraunhofer Lines Are Not Systematically Affected by. *Charles E. St. John* 311

Atoms, as Computed from Einstein's Photo-Electric Equation and by Other Methods, A Relation between the Convergence Wave-Lengths in Spectral Series and the Radii of Their Respective. *Fernando Sanford* 201

Binaries α Orionis and α Scorpii, On the Orbits of the Spectroscopic. *Joseph Lunt* 250

Binaries, Densities of Visual. *E. Öpik* 292

Binary σ Puppis, On the Orbit of the Spectroscopic. *Joseph Lunt* 260

Calcium and Iron when Produced by Cathodo-Luminescence, Preliminary Observations of the Spectra of. *Arthur S. King* and *Edna Carter* 303

Calcium and Lithium, Effect of an Electric Field on the Lines of. *Janet T. Howell* 87

Calcium Arc, Pole-Effect in a. *Walter T. Whitney* 65

RZ Cassiopeiae, A Photometric Study of the Eclipsing Variable. *R. S. Dugan* 117

Cathodo-Luminescence, Preliminary Observations of the Spectra of Calcium and Iron when Produced by. *Arthur S. King* and *Edna Carter* 303

U Cephei, The Period of. *Martha Betz Shapley* 51

Cepheid Variables, The Variations in Spectral Type of Twenty. *Harlow Shapley* 273

Constant-Error Term K, The Nature of the. *C. D. Perrine* . 244

Dispersion in the Sun, Anomalous, II. *Sebastian Albrecht* . . 1

Dispersion, Mutual Repulsion of Spectral Lines, and Other Solar Effects Concerned with Anomalous. *Sir Joseph Larmor* . 265

Dispersion, Observational Evidence that the Relative Positions of Fraunhofer Lines Are Not Systematically Affected by. *Charles E. St. John* 311

PAGE

Einstein's Photo-Electric Equation and by Other Methods, A Relation between the Convergence Wave-Lengths in Spectral Series and the Radii of Their Respective Atoms, as Computed from. *Fernando Sanford* 201

Electric Field on the Lines of Calcium and Lithium, Effect of an. *Janet T. Howell* 87

Errata 263

Fraunhofer Lines Are Not Systematically Affected by Anomalous Dispersion, Observational Evidence that the Relative Positions of. *Charles E. St. John* 311

Haze on Spectroscopic Measures of the Solar Rotation, The Effect of. *Ralph E. De Lury* 177

Iron when Produced by Cathodo-Luminescence, Preliminary Observations of the Spectra of Calcium and. *Arthur S. King* and *Edna Carter* 303

Lithium, Effect of an Electric Field on the Lines of Calcium and. *Janet T. Howell* 87

Lithium Line λ 6708 and Its Probable Occurrence in Sun-Spot Spectra, The Structure of. *Arthur S. King* 169

Magnitude, Intensity of the Continuous Spectrum of Stars and Its Relation to Absolute. *George S. Monk* 45

Metals, Reflecting Power of the Alkali. *J. B. Nathanson* . . 137

Moon, The Photographic Brightness of the Full. *Henry Norris Russell* 128

Nebula Messier 101, Preliminary Evidence of Internal Motion in the Spiral. A. Van Maanen 210

Nebula N.G.C. 2261, The Variable. *Edwin P. Hubble* . . . 190

Orbit of the Spectroscopic Binary σ Puppis, On the. *Joseph Lunt* 260

Orbits of the Spectroscopic Binaries α Orionis and α Scorpii, On the. *Joseph Lunt* 250

α Orionis and α Scorpii, On the Orbits of the Spectroscopic Binaries. *Joseph Lunt* 250

Photographs, A New Double Occulting Sector for Stellar. *Oliver J. Lee* 59

Pole-Effect in a Calcium Arc, The. *Walter T. Whitney* . . . 65

Proper Motion, Some Determinations of the Apex and Velocity of Solar Motion from the Radial Velocities of the Brighter Stars, Including an Apparent Relation to. *C. D. Perrine* . 103

σ Puppis, On the Orbit of the Spectroscopic Binary. *Joseph Lunt* 260

Radial Velocities of the Brighter Stars, Including an Apparent Relation to Proper Motion, Some Determinations of the Apex and Velocity of Solar Motion from the. *C. D. Perrine* 103

Radiation Visually Perceptible, The Minimum. *Herbert E. Ives* . 124

Reflecting Power of the Alkali Metals. *J. B. Nathanson* . . 137

PAGE

Resolving Power, Spectroscopic. *C. M. Sparrow* 76

Reviews:

Bigelow, Frank H. *A Meteorological Treatise on the Circulation and Radiation in the Atmospheres of the Earth and of the Sun* (Harry Bateman) 342

Hubrecht, J. B. *The Solar Rotation in June 1911* (W. S. Adams) 62

Turner, H. H. *A Voyage in Space* (C. C. Crump) 135

Wolf, Max. *Stereoskopbilder vom Sternhimmel* (E. E. Barnard) 131

Rowland Table for Such Lines, The Accuracy Obtainable in the Measured Separation of Close Solar Lines; Systematic Errors in the. *Charles E. St. John* and *L. W. Ware* 15

Schwarzschild, Karl 64

α Scorpii, On the Orbits of the Spectroscopic Binaries α Orionis and. *Joseph Lunt* 250

Sector for Stellar Photographs, A New Double Occulting. *Oliver J. Lee* 59

Solar Effects Concerned with Anomalous Dispersion, Mutual Repulsion of Spectral Lines, and Other. *Sir Joseph Larmor* 265

Solar Lines; Systematic Errors in the Rowland Table for Such Lines, The Accuracy Obtainable in the Measured Separation of Close. *Charles E. St. John* and *L. W. Ware* 15

Solar Motion from the Radial Velocities of the Brighter Stars, Including an Apparent Relation to Proper Motion, Some Determinations of the Apex and Velocity of. *C. D. Perrine* . 103

Solar Rotation, Note on a Supposed Variation in the. *Ralph E. De Lury* 190

Solar Rotation, The Effect of Haze on Spectroscopic Measures of the. *Ralph E. De Lury* 177

Spectra of Calcium and Iron when Produced by Cathodo-Luminescence, Preliminary Observations of the. *Arthur S. King* and *Edna Carter* 303

Spectra, The Structure of the Lithium Line λ 6708 and Its Probable Occurrence in Sun-Spot. *Arthur S. King* 169

Spectral Lines, and Other Solar Effects Concerned with Anomalous Dispersion, Mutual Repulsion of. *Sir Joseph Larmor* . . 265

Spectral Series and the Radii of Their Respective Atoms, as Computed from Einstein's Photo-Electric Equation and by Other Methods, A Relation between the Convergence Wave-Lengths in. *Fernando Sanford* 201

Spectral Series, On the Relation between Lines of the Same. *W. M. Hicks* 229

Spectral Type of Twenty Cepheid Variables, The Variations in. *Harlow Shapley* 273

PAGE

Spectroscopic Binaries α Orionis and α Scorpii, On the Orbits of the. *Joseph Lunt* 250
Spectroscopic Binary σ Puppis, On the Orbit of the. *Joseph Lunt* 260
Spectroscopic Measures of the Solar Rotation, The Effect of Haze on. *Ralph E. De Lury* 177
Spectroscopic Resolving Power. *C. M. Sparrow* 76
Spectrum of Stars and Its Relation to Absolute Magnitude, Intensity of the Continuous. *George S. Monk* 45
Stars, Including an Apparent Relation to Proper Motion, Some Determinations of the Apex and Velocity of Solar Motion from the Radial Velocities of the Brighter. *C. D. Perrine* 103
Stars and Its Relation to Absolute Magnitude, Intensity of the Continuous Spectrum of. *George S. Monk* 45
Structure of the Lithium Line λ 6708 and Its Probable Occurrence in Sun-Spot Spectra. *Arthur S. King* 169
Sun, Anomalous Dispersion in the, II. *Sebastian Albrecht* . . 1
Sun, On the Temperature and Radiation of the. *C. G. Abbot, F. E. Fowle,* and *L. B. Aldrich* 39
Sun-Spot Spectra, The Structure of the Lithium Line λ 6708 and Its Probable Occurrence in. *Arthur S. King* 169
Variable RZ Cassiopeiae, A Photometric Study of the Eclipsing. *R. S. Dugan* 117
Variables, The Variations in Spectral Type of Twenty Cepheid. *Harlow Shapley* 273
Visual Binaries, Densities of. *E. Öpik* 292
Wave-Lengths in Spectral Series and the Radii of Their Respective Atoms, as Computed from Einstein's Photo-Electric Equation and by Other Methods, A Relation between the Convergence. *Fernando Sanford* 201
Zeeman Effect, An Experimental Study of a Theory of the Complex. *A. E. Becker* 236

INDEX TO VOLUME XLIV

AUTHORS

PAGE

Abbot, C. G., F. E. Fowle, and L. B. Aldrich. On the Temperature and Radiation of the Sun 39

Adams, Walter S. Review of: *The Solar Rotation in June 1911*, J. B. Hubrecht 62

Albrecht, Sebastian. Anomalous Dispersion in the Sun, II . 1

Aldrich, L. B., C. G. Abbot, and F. E. Fowle. On the Temperature and Radiation of the Sun 39

Barnard, E. E. Review of: *Stereoskopbilder vom Sternhimmel*, Max Wolf 131

Bateman, Harry. Review of: *A Meteorological Treatise on the Circulation and Radiation in the Atmospheres of the Earth and of the Sun*, Frank H. Bigelow 342

Becker, A. E. An Experimental Study of a Theory of the Complex Zeeman Effect 236

Carter, Edna, and Arthur S. King. Preliminary Observations of the Spectra of Calcium and Iron when Produced by Cathodo-Luminescence 303

Crump, C. C. Review of: *A Voyage in Space*, H. H. Turner . 135

De Lury, Ralph E. The Effect of Haze on Spectroscopic Measures of the Solar Rotation 177

Note on a Supposed Variation in the Solar Rotation . . 198

Dugan, R. S. A Photometric Study of the Eclipsing Variable RZ Cassiopeiae 117

Fowle, F. E., C. G. Abbot, and L. B. Aldrich. On the Temperature and Radiation of the Sun 39

Hicks, W. M. On the Relation between Lines of the Same Spectral Series 229

Howell, Janet T. The Effect of an Electric Field on the Lines of Calcium and Lithium 87

Hubble, Edwin P. The Variable Nebula N.G.C. 2261 . . 190

Ives, Herbert E. The Minimum Radiation Visually Perceptible 124

King, Arthur S. The Structure of the Lithium Line λ 6708 and Its Probable Occurrence in Sun-Spot Spectra 169

King, Arthur S., and Edna Carter. Preliminary Observations of the Spectra of Calcium and Iron when Produced by Cathodo-Luminescence 303

PAGE

LARMOR, SIR JOSEPH. Mutual Repulsion of Spectral Lines, and Other Solar Effects Concerned with Anomalous Dispersion . 265

LEE, OLIVER J. A New Double Occulting Sector for Stellar Photographs 59

LUNT, JOSEPH. On the Orbits of the Spectroscopic Binaries α Orionis and α Scorpii 250

On the Orbit of the Spectroscopic Binary σ Puppis . . . 260

MONK, GEORGE S. Intensity of the Continuous Spectrum of Stars and Its Relation to Absolute Magnitude 45

NATHANSON, J. B. The Reflecting Power of the Alkali Metals . 137

ÖPIK, E. Densities of Visual Binaries 292

PERRINE, C. D. Some Determinations of the Apex and Velocity of Solar Motion from the Radial Velocities of the Brighter Stars, Including an Apparent Relation to Proper Motion . 103

The Nature of the Constant-Error Term K. Second Paper . 244

RUSSELL, HENRY NORRIS. The Photographic Brightness of the Full Moon 128

ST. JOHN, CHARLES E. Observational Evidence that the Relative Positions of Fraunhofer Lines Are Not Systematically Affected by Anomalous Dispersion 311

ST. JOHN, CHARLES E., and L. W. WARE. The Accuracy Obtainable in the Measured Separation of Close Solar Lines; Systematic Errors in the Rowland Table for Such Lines 15

SANFORD, FERNANDO. A Relation between the Convergence Wave-Lengths in Spectral Series and the Radii of Their Respective Atoms, as Computed from Einstein's Photo-Electric Equation and by Other Methods 201

SHAPLEY, HARLOW. The Variations in Spectral Type of Twenty Cepheid Variables 273

SHAPLEY, MARTHA BETZ. The Period of U Cephei 51

SPARROW, C. M. On Spectroscopic Resolving Power . . . 76

VAN MAANEN, A. Preliminary Evidence of Internal Motion in the Spiral Nebula Messier 101 210

WARE, L. W., and CHARLES E. ST. JOHN. The Accuracy Obtainable in the Measured Separation of Close Solar Lines; Systematic Errors in the Rowland Table for such Lines 15

WHITNEY, WALTER T. The Pole-Effect in a Calcium Arc . . 65